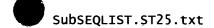
SubSEQLIST.ST25.txt SEQUENCE LISTING

```
<110>
       CHO-A PHARM CO., LTD.
       KIM, Jin-Hoi
<120>
       PORCINE UROPLAKIN II PROMOTER AND THE PRODUCTION METHOD OF USEFUL
        PROTEINS USING SAID PROMOTER
<130>
      P27726
<140>
       10/532,580
<141>
       2005-04-25
<150>
       PCT/KR2003/002339
<151>
       2003-11-04
<150>
       KR-10-2002-0067856
       2002-11-04
<151>
<150>
       KR-10-2003-0077256
<151>
       2003-11-03
<160>
       13
<170> PatentIn version 3.3
<210>
<211>
       8847
<212>
       DNA
<213>
      Sus scrofa
<220>
<221>
       promoter
<222>
       (1)..(8847)
<223>
       porcine uroplakin II promoter
<220>
<221>
       misc_feature
       (385)..(385)
<222>
<223>
       n is a, c, g, or t
<220>
       misc_feature (387)..(387)
<221>
<222>
<223>
       n is a, c, g, or t
<220>
<221>
       misc_feature
<222>
       (455)..(455)
<223>
       n is a, c, g, or t
<220>
       misc_feature (1261)..(1261)
<221>
<222>
<223>
       n is a, c, g, or t
<220>
<221>
      misc_feature
<222>
      (1266)..(1266)
<223>
      n is a, c, g, or t
<220>
```

SubSEQLIST.ST25.txt

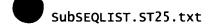
```
<221>
       misc_feature
<222>
       (2446)..(2446)
<223>
       n is a, c, g, or t
<220>
<221>
       misc_feature
<222>
       (3388)..(3388)
<223>
       n is a, c, g, or t
<220>
<221>
       misc_feature
<222>
       (3790)..(3790)
<223>
       n is a, c, g, or t
<220>
       misc_feature (3795)..(3795)
<221>
<222>
<223>
       n is a, c, g, or t
<220>
       misc_feature (6882)..(6882)
<221>
<222>
<223>
       n is a, c, g, or t
<220>
<221>
       misc_feature
<222>
       (6914)..(6914)
<223>
       n is a, c, g, or t
<220>
<221>
       misc_feature
<222>
       (6916)..(6916)
<223>
       n is a, c, g, or t
<400>
gggctaggag tggaatcaga gctggcctat gccacagcaa cgcagaatcc aaaccacatc
                                                                         60
                                                                        120
tccgacctac accagaccgt caccataaca caggatcctt aacccactga gcaaggtcag
                                                                        180
ggatcaaacc caaatcctca tggatactag tcgggttctt aacccgctga gccacagtgg
gcactcctgt ttttgtttgt gtcttcgttt tttggctgca tctgcagcat acagaagttc
                                                                        240
                                                                        300
ctgggttaag gattgaaccc atgccacagc agcaacccga gccacagcag tgacaacagc
                                                                        360
ctgatcctta actgctagac caccagggaa cgcccctca acttttcatg ccttggaaac
cctgagtcag tacaacctga caatngnttt tttttttttt tttttttgcc ttttctaggg
                                                                        420
ccacttcccg cggcatgtgg agattcgcag gctanaggtc taatcggagc tgtagccacc
                                                                        480
                                                                        540
ggcctacacc agagccatag caacgaggga tccgagccga gtctgcaacc tacactacag
ctcatggcaa caccggatcg ttaacccact gagcaaggcc aggggatcga acccgcaacc
                                                                        600
tcatggttcc tagtcagatt cgttaaccac tgcaccatga caggaactcc caacctgaca
                                                                        660
attttatcat ttctgcaccc tagttgttga gtaatttgaa aaattcccaa gatgtcaagg
                                                                        720
                                                                        780
tcagtgtgat ggttaatttt atgtgtcaac ctgactaggc catgttgccc ggatgtggag
tcattgttat tctggatgtt actgtgaaga tatgttttgg atgaaattaa catttaaatc
                                                                        840
```

aqtqqqqqa	aaaaaaqaaq		SubSEQLIST. ggtgcatcag	ST25.txt aaacaaatcc	gactaggaaa	900
				gtcaggatct		960
tgagctgtgg	tacaggtggc	agatgcagct	cggatctagc	attgctgtgg	ctgtggtgta	1020
ggccagcagc	tgtagctctg	attaaacccc	aagtctggga	acctccatat	gccgtgggtg	1080
tggcccgaaa	aagcaaaaaa	taaataaata	aataaattta	aaccagggga	ttttgagcaa	1140
agcagattac	cccataatat	gggtgggtct	catcaagttc	attgtaggcc	ctagtggaac	1200
aaagaccgac	ctccaccttc	tccccatgag	aaggaaagaa	ttctgccaaa	agaccgcctt	1260
nggacntaaa	ctgcaactct	ttcctgagtt	tccagcatgt	tggcctcccc	catcagactt	1320
tggacttgcc	aagcctccgc	aattgcatga	gccaattcct	taaaataaat	ccgtctatat	1380
atacacatcc	tgttggttct	gtttctccag	agaaccctga	ctaacgcagt	ctgcacccct	1440
gaagaccagt	ggtccccaca	ctcagctggg	tgtcacctcc	aaacactcag	ccttcctcaa	1500
ggctctttct	agctgtgtcc	tcctctcccc	acaacagctg	tttcaaactc	tcacccctct	1560
tcagggcgca	atcccttctc	ctccctgagt	ttcctacttc	ccagagaaag	cagagacctt	1620
caggagtgtg	ctgccttaac	ttacttcctt	catccctcag	ccttgcaaaa	gtataagctt	1680
tctctgcacc	actgccccat	tcttctctct	gcagacaggg	tcattcctaa	agccaaacgc	1740
taatgcctcc	acctctgatc	tgagtcccat	cttttccctc	ctccagaagc	ttcctcataa	1800
attctacccc	cttttcttcc	ttatctttat	ctttgaaaac	aaaatggaag	acagccttcc	1860
cgttgtggtg	cagcggaaac	agtggtgcct	tggaagcgct	gggacgcagg	ttcgacccct	1920
ggcccagcat	agtaggttaa	ggatccagtg	ttgccacagt	tttggcttag	attgaaactg	1980
cagctcagat	ctggtccctg	gcctgggaac	ttcatacgcc	acaggacggc	ccaaaaagaa	2040
aagaaagaaa	aaataaaaaa	caaaacagaa	aagcctttcc	tgtaccccca	attccctcca	2100
gttatctctc	tctttccctt	cccagccaag	ctctgcaaag	agcggtctgc	acagttctaa	2160
ctctacctcc	tcccagttgg	ccctggactt	tctcagtctg ⁻	gcttctaccc	ccctcacccg	2220
taggaatctg	ctctgaagga	cacgcacccc	tcacgatcct	tggcccaggg	acattttttg	2280
taccagcctt	tcaatcctga	ccttcatatc	atccgacacc	tcctttgtga	aaccctccat	2340
ccactttctc	ctggttcccc	tcctaagacc	cattccgcct	tcttcagccc	cctccctcca	2400
tctgtccttt	agatgccgca	tttcctagta	tcctgtcctg	cgcggnctcg	tccttccctt	2460
ccacaactct	cttcaaggac	tcttttctcc	atgtgcgatt	ttgcccatgg	cccaccttcc	2520
ctctctttac	ccagactttc	ccccggtgct	ccagactcat	agactcaatt	atgaaaacat	2580
agttttcatc	tgatttgccc	aagatatttg	cattagttat	tactgtataa	cagcttatcc	2640
cccaatttag	tggcttataa	aataaacact	tattctgaga	atcagaaacc	taggcaggac	2700
atagttgggg	tctcatgaag	ttgcactgaa	aatgtccccc Page	tgggctaatc 3	atacggagga	2760



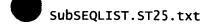
ctgaccaggg	ctggaggatc	tgttccaagc	tcattcattc	acatggccgt	aggttggaga	2820
cagctcttct	ctggatcttg	gcaggagcct	caattccttg	tcacgtggac	ctcccttgg	2880
agggggtccc	atgtcctcca	tggtgagtaa	tccatgagag	caaggtggaa	ggtgccatgc	2940
catttaggac	ctagcctcag	gagggaccta	cgtcacttct	gttgtagtct	gttggccaca	3000
cagactaacc	ctgacacaat	gcacccatcc	atgacctgct	gccagtccat	tctccacact	3060
gtttccagaa	tgatatttac	ataagtaaaa	ctcctcaaag	gcttttgaga	tttttttcc	3120
cattatagtt	gatttataac	ctcagaggct	tttgttttct	tcagcataaa	aaccaagttc	3180
cttaacatag	catgtaaccc	actggccacc	ctgccagtgg	ctagaactct	caccatgtcc	3240
atccttgaat	actgctttct	agccaagagc	tattgtttgc	agttcccaga	atgtgtcggg	3300
ataactcaca	tctctgagcc	ttttcatgtg	ctgttccctc	actttggaat	atccccttcc	3360
atttaggaag	gctaatgtcc	attcattntc	caaaactcag	aagcaaattt	tttttttt	3420
ttttttttt	tttttttgct	ttttagggcc	gaactctcag	catatggagg	ttcccaggtt	3480
agccatcaaa	ttggaattgt	agctgctggc	ctacaccaca	gccatagcaa	caccagaccc	3540
aagtcacatc	tgcaacctac	atcacagatc	atggcaatac	tggatcctta	acccactgag	3600
tgagcccagg	gatcaaacac	aaattctcat	ggatactcgc	caggttcatt	accactgagc	3660
cacaacagga	actcctctcc	tttttatggt	cacacctgca	gcatatggaa	gttcctgggc	3720
cagggattga	atctgagtgg	cagctgtgac	aatgccgtat	cctttaattc	actgtgctgg	3780
gctgaggggn	taaantgccc	ctcctaaaaa	acctgagctg	ctgcagttgg	attcttaatc	3840
cactgcacca	caagggggaa	ggtcaagaac	tgtcttgcca	tctctgtatc	ttatcaccta	3900
gcatagtacc	caccatagag	aagttgctca	acaaatgttt	actgaatgaa	taaatgcatg	3960
agctggagtt	cccattgcgg	ctcagcagta	acaaacctga	ctagcattca	taagaacttg	4020
ggttcgatcc	ctagcctcag	tgggttaagg	atgcagcatt	gctgtgagct	gtggtgtagg	4080
tcgcagacga	cactcagatc	ccacattgct	gtcactgtgg	cgcaggccgg	cctctgtagc	4140
tctgattcga	ctcctagcct	gggaacgtcc	atatgccaca	ggtgaggccc	taaaaagaaa	4200
taaataagca	agcaagtaag	caagcaggca	gtttcttggt	gccttgtacc	cctgtggcct	4260
gtgtggtata	caagtaacag	ctgatccatg	tctcagtcat	gtttcccct	cagactacct	4320
ttcctgcccc	atctctccct	ttgacataat	tggaaaaaca	aattcagaat	tttgtcccac	4380
tacctttctt	gctagctctg	tggccttggg	aaagctattt	attgcctctg	agcctctaat	4440
tttcatctgc	accaaggatt	aataaaaagg	agaggataag	atgaattact	tatattaata	4500
tttattgaac	cagatactgt	gctaggcact	cttaaataaa	ttagcttgag	tgatagtcat	4560
agtatcctgg	tgagacagat	ttttttttc	cttttatggt	tgcacgtgca	acatatggaa	4620

			SubSEQLIST.	ST25 tyt		
gttcctgggc	tggggtcgaa				gccatggcaa	4680
catcatatac	aaaccgcacc	tgtgacctac	accacagatt	gcagcaacgc	tggatccttc	4740
acccaaggag	caaggccagg	aatcaaatgt	gcatcctcac	aaacactatg	tccggttttt	4800
aacccgctga	gccacaccag	gaactccatg	gcgagacaga	ttttatactc	tgtctacaga	4860
agaggaaagt	gaagctcaga	atggttaggt	aggtaacttg	gccaagatca	aaaaattcaa	4920
agaagatttg	gggcaagtgg	tgatatcatg	gcagcattag	aaaaaataaa	gaagcatcca	4980
cttgttttcc	aacactgaac	aactgagatt	ttcttactct	cacagctttt	tccagcttca	5040
tatccaagga	cagacgctct	gccattttcc	catcagacca	atatttgctg	aacactgcac	5100
ctttactttt	aggtccaagt	caccaggggt	tttcccagtt	tgctcctaca	gattctgaca	5160
ctatctccac	atttttttg	cacctttatt	ttaaagcatt	tttatacctg	tcataccttg	5220
ctagataaat	gggaaggaat	gaatcttccc	atttataggt	gagaaaattg	aggttcaaag	5280
tgactcacca	aaagtcatat	agcatcactc	ctcaacagga	ggacagcagt	ccccaccaga	5340
gggtaacatg	tccatggagc	ctagtggaca	catttttcta	actgactggg	aagcagcaga	5400
gtggtattgt	gaagggggaa	tcataggtat	atcaaacaga	cttaggttct	gatccgagct	5460
attctgcttg	caaacaacca	tagttcaatt	taaaaaaaaa	aaagaaagaa	agaaagaaag	5520
aaaggagccc	ccatcctggt	gcagtggaaa	caaattcaac	taggaactgt	gaggttgtgg	5580
gttcgatccc	tggccttgct	cagtgggtta	aggatctggc	gttgccatga	gccgtggtgt	5640
aggttgcaga	ctcaactcag	atctggcgtt	gctgtgactg	tggctgtgat	gtaggctggc	5700
agctgtaact	ccggttagac	cccagcctgg	gaacctccat	atgcaacctc	catatgcggt	5760
gggtgtggcc	ctaaaaagaa	aaaaaaaaa	aaaagaggaa	ttcccttatg	gctcagcagg	5820
ttaaggatct	ggtattgtca	ctgctgtggc	tctagttaca	gccatagtgc	aggttcaatc	5880
cctggcccag	gaacgtctgc	atcccacagg	tgtggccaaa	aaagaaagaa	aggaaggagt	5940
tctgttgtgg	cacaatagga	ttggcaacat	cttaggagta	ctgggacaca	ggttcaatcc	6000
ctggcccagc	acagtgggta	aggagccagt	gttgctggtc	aaaaaagaaa	agaaaaagta	6060
ccatagttag	agtaaatctg	ttttaggagc	tattctttgg	ggcagaacag	agagatcagg	6120
agctccttga	gagcagaaac	ttacctttac	atccctcgtg	cctagcacgg	ttctaggggc	6180
atacctggta	tttaataaat	atagccaact	ggatagggga	ttggaaggaa	agagcagggg	6240
agggaacttg	agtgagttga	aaaattgaga	atccaaaggg	gagacagcct	agaaagagta	6300
ggtccaagaa	agagatccca	ggcatttgtg	gccctggttc	cctttttcca	agccatgagg	6360
aaatcctcag	aggaacagag	tgctgtggct	ttaaatgact	tcagcgttgt	caatgaatct	6420
gctcggctaa	aagagttatc	ctcttgctcc	ttcgcttgtc	ctcccctcc	tctcagctcc	6480
ccaaaccctt	ctcggctgct	gtgatgggat	aattagatgc Page		cacagatgat	6540



gctccagttg	cctagcaact	aatggtttcc	atggagaccg	caaagcacag	cctccagagc	6600
agccagtgag	cagctcggca	gggcagggag	aagacgcaac	tctcagctcc	tccagaaacc	6660
tggggagggc	caggagtggg	gaagaagggg	gggatcggag	ggcttaaagg	cacaggcccc	6720
tcttatcctc	ttaaaatctg	gtcagagctc	tgccctcccc	tcccctactc	tgtcccactc	6780
ataatttcag	atggagttgg	gggcttagga	gtggacccaa	cacaacctac	cctgcaataa	6840
acccaacctt	ctttctgctt	ctggtttgtg	gctgaaaatg	gnaaaagaaa	tctcccaagt	6900
gcaagtgtaa	acancntcct	gggttggcaa	tgggatctga	agagtactaa	gatccctcag	6960
acctggaatt	ccaccattta	gtctttccct	ctctccaaag	ttctcaatgt	gcaaaagatc	7020
ctctttcagt	ttgcagagca	atgataggat	cttctaaaag	gagacaaaag	ccaaggtgca	7080
ggaaaaatag	aattcagttc	ttcacccaaa	ggcagcctgt	cctgggagac	aggggtgaaa	7140
cacttggtcc	tgatctccat	cagaggatcc	agagtgtgtg	tgtttgttgc	tggggagggg	7200
gacacaatat	agagcatctg	gtgactcaaa	gtatgtgcct	cccagagtag	catcaatcaa	7260
tgttacctgg	aagcttgtta	gaaatgcaga	atttcaggct	tcacctcaga	cccactgaat	7320
cagaaactgc	atcttaacaa	gatccctcat	gattcatacg	cacattaaat	ttggagaagc	7380
gctgacctga	gaccctcctc	ctctctgctt	gggcccatag	ttctaccttt	attgtcacct	7440
cgtctcacct	cgtgctcata	ccccaggctt	tgagcctacc	cttccccca	tggggaaagg	7500
acacaaggcc	accagcccct	cacttcccta	ccaggaccct	ggccctcctc	tgggactgga	7560
gaaggacaaa	gaggaccccc	tctgtggagg	tctacgacct	ctcctgacca	agtagtccac	7620
tcaccacaag	tggctctacc	tctctgagtc	tcagtttcca	catccacaaa	aggtggccaa	7680
tgctatctgc	cacccagaat	ggctgtgagg	gtggagcagg	caaagcctct	gtgccatcag	7740
agaaattgtg	tctctttttc	attttctccc	agtgggtttc	tttctcgtct	ttattctttt	7800
ttttttttt	ttttcctgtc	tgttgtattt	ttagggccgt	gcctgtggca	tacggaagtt	7860
cccagggtag	gggtccaatg	ggagctgtag	ccccgggcct	acgccacagc	cacagcaatg	7920
tgggatctga	gccacgtctg	caacctacac	cacagctcac	ggcaacacca	gatccttaac	7980
ccactgagca	aggccaggga	tcgagcccac	gtcctcatgg	atgctagttg	ggttcgttaa	8040
ccgctgagcc	atgatgataa	ctcctctttc	tattctttag	tcacaaacag	tcaacaaagg	8100
ttgctgacca	aggctgatcg	tgcccacccc	ccagcccccc	agactgggcc	agtgcccacc	8160
ccttgggtct	ctctggaaat	cctgcccagc	atcaattggc	tccactctcc	aggaggatgg	8220
gaagccctgt	ggcccctggg	actcacaccc	ctctgcatct	cccagagtgc	aggacctggt	8280
cttcaggaga	caccaagaac	tggctcccc	ggctctgctg	ccccacccc	ctactaccag	8340
tttctctccc	attcctgccc	agtccaggcc	ccctggggtt	actctcctct	ctctgtacac	8400

CURCEOUTET CT35 AVA
SubSEQLIST.ST25.txt cagtgcaacc tcagaacctg cttccctcct gggaacaccc actaccacgt gggagaaggg 8460
gtcgtctagg ggttgggccc cagatacact tgtaagcagg aacacacgag cccttacatg 8520
tgggtgtccc ggaagaaggg ggttttccac ccccgcttt agtcaccctg cccctctgca 8580
gctgcctgag ccaccaagac ccagccaagg tctcctgcct tctggcctga gggccagctc 8640
cccatcctga aaaacctgtc tgggggcctc ccctgaggct gtagggccca aggcctcccc 8700
tgaggctgta gggcccaagg ggcaggttga acaggattcc cctctggccc ctcctacccc 8760
caggacaaaa ccagagcccc aggacagggc ctcacttgcc tcaggaaacc acagcttgcc 8820
agcacccagc ccagcaccag cccagct 8847
<210> 2 <211> 20 <212> DNA <213> Artificial sequence
<220> <223> forward primer for amplifying porcin uroplakin II gene
<400> 2 gatcctgatt ctgctggctb 20
<210> 3 <211> 20 <212> DNA <213> Artificial sequence
<220> <223> reverse primer for amplifying porcin uroplakin II gene
<400> 3 atggtggtca tcacrgtgct 20
<210> 4 <211> 3602 <212> DNA <213> Homo sapiens
<pre><300> <301> Lin, F. K., Suggs, S., Lin, C. H., Browne, J. K., Smalling, R.,</pre>
<pre><302> Cloning and expression of the human erythropoietin gene <303> Proc. Natl. Acad. Sci. U.S.A. <304> 82 <306> 7580-7584 <307> 1985</pre>
<400> 4 aagcttctgg gcttccagac ccagctactt tgcggaactc agcaacccag gcatctctga 60
gtctccgccc aagaccggga tgcccccag gggaggtgtc cgggagccca gcctttccca 120
gatagcacgc tccgccagtc ccaagggtgc gcaaccggct gcactcccct cccgcgaccc 180
agggcccggg agcagccccc atgacccaca cgcacgtctg cagcagcccc gctcacgccc 240 Page 7



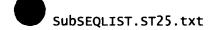
cggcgagcct	caacccaggc	gtcctgcccc	tgctctgacc	ccgggtggcc	cctacccctg	300
gcgacccctc	acgcacacag	cctctcccc	acccccaccc	gcgcacgcac	acatgcagat	360
aacagccccg	accccggcc	agagccgcag	agtccctggg	ccaccccggc	cgctcgctgc	420
gctgcgccgc	accgcgctgt	cctcccggag	ccggaccggg	gccaccgcgc	ccgctctgct	480
ccgacaccgc	gccccctgga	cagccgccct	ctcctctagg	cccgtggggc	tggccctgca	540
ccgccgagct	tcccgggatg	agggcccccg	gtgtggtcac	ccggcgcgcc	ccaggtcgct	600
gagggacccc	ggccaggcgc	ggagatgggg	gtgcacggtg	agtactcgcg	ggctgggcgc	660
tcccgccgcc	cgggtccctg	tttgagcggg	gatttagcgc	cccggctatt	ggccaggagg	720
tggctgggtt	caaggaccgg	cgacttgtca	aggaccccgg	aagggggagg	ggggtggggc	780
agcctccacg	tgccagcggg	gacttggggg	agtccttggg	gatggcaaaa	acctgacctg	840
tgaaggggac	acagtttggg	ggttgagggg	aagaaggttt	gggggttctg	ctgtgccagt	900
ggagaggaag	ctgataagct	gataacctgg	gcgctggagc	caccacttat	ctgccagagg	960
ggaagcctct	gtcacaccag	gattgaagtt	tggccggaga	agtggatgct	ggtagctggg	1020
ggtggggtgt	gcacacggca	gcaggattga	atgaaggcca	gggaggcagc	acctgagtgc	1080
ttgcatggtt	ggggacagga	aggacgagct	ggggcagaga	cgtggggatg	aaggaagctg	1140
tccttccaca	gccacccttc	tccctccccg	cctgactctc	agcctggcta	tctgttctag	1200
aatgtcctgc	ctggctgtgg	cttctcctgt	ccctgctgtc	gctccctctg	ggcctcccag	1260
tcctgggcgc	cccaccacgc	ctcatctgtg	acagccgagt	cctggagagg	tacctcttgg	1320
aggccaagga	ggccgagaat	atcacggtga	gaccccttcc	ccagcacatt	ccacagaact	1380
cacgctcagg	gcttcaggga	actcctccca	gatccaggaa	cctggcactt	ggtttggggt	1440
ggagttggga	agctagacac	tgcccccta	cataagaata	agtctggtgg	ccccaaacca	1500
tacctggaaa	ctaggcaagg	agcaaagcca	gcagatccta	cggcctgtgg	gccagggcca	1560
gagccttcag	ggacccttga	ctcccgggc	tgtgtgcatt	tcagacgggc	tgtgctgaac	1620
actgcagctt	gaatgagaat	atcactgtcc	cagacaccaa	agttaatttc	tatgcctgga	1680
agaggatgga	ggtgagttcc	ttttttttt	tttttccttt	cttttggaga	atctcatttg	1740
cgagcctgat	tttggatgaa	agggagaatg	atcgggggaa	aggtaaaatg	gagcagcaga	1800
gatgaggctg	cctgggcgca	gaggctcacg	tctataatcc	caggctgaga	tggccgagat	1860
gggagaattg	cttgagccct	ggagtttcag	accaacctag	gcagcatagt	gagatccccc	1920
atctctacaa	acatttaaaa	aaattagtca	ggtgaagtgg	tgcatggtgg	tagtcccaga	1980
tatttggaag	gctgaggcgg	gaggatcgct	tgagcccagg	aatttgaggc	tgcagtgagc	2040
tgtgatcaca	ccactgcact	ccagcctcag	tgacagagtg	aggccctgtc	tcaaaaaaga	2100

			cuberou zez	CT35 A		
aaagaaaaaa	gaaaaataat		SubSEQLIST. tggaatacat	tcattattca	ttcactcact	2160
cactcactca	ttcattcatt	cattcattca	acaagtctta	ttgcatacct	tctgtttgct	2220
cagcttggtg	cttggggctg	ctgaggggca	ggagggagag	ggtgacatgg	gtcagctgac	2280
tcccagagtc	cactccctgt	aggtcgggca	gcaggccgta	gaagtctggc	agggcctggc	2340
cctgctgtcg	gaagctgtcc	tgcggggcca	ggccctgttg	gtcaactctt	cccagccgtg	2400
ggagcccctg	cagctgcatg	tggataaagc	cgtcagtggc	cttcgcagcc	tcaccactct	2460
gcttcgggct	ctgggagccc	aggtgagtag	gagcggacac	ttctgcttgc	cctttctgta	2520
agaaggggag	aagggtcttg	ctaaggagta	caggaactgt	ccgtattcct	tccctttctg	2580
tggcactgca	gcgacctcct	gttttctcct	tggcagaagg	aagccatctc	ccctccagat	2640
gcggcctcag	ctgctccact	ccgaacaatc	actgctgaca	ctttccgcaa	actcttccga	2700
gtctactcca	atttcctccg	gggaaagctg	aagctgtaca	caggggaggc	ctgcaggaca	2760
ggggacagat	gaccaggtgt	gtccacctgg	gcatatccac	cacctccctc	accaacattg	2820
cttgtgccac	accctcccc	gccactcctg	aaccccgtcg	aggggctctc	agctcagcgc	2880
cagcctgtcc	catggacact	ccagtgccag	caatgacatc	tcaggggcca	gaggaactgt	2940
ccagagagca	actctgagat	ctaaggatgt	cacagggcca	acttgagggc	ccagagcagg	3000
aagcattcag	agagcagctt	taaactcagg	gacagagcca	tgctgggaag	acgcctgagc	3060
tcactcggca	ccctgcaaaa	tttgatgcca	ggacacgctt	tggaggcgat	ttacctgttt	3120
tcgcacctac	catcagggac	aggatgacct	ggagaactta	ggtggcaagc	tgtgacttct	3180
ccaggtctca	cgggcatggg	cactcccttg	gtggcaagag	ccccttgac	accggggtgg	3240
tgggaaccat	gaagacagga	tgggggctgg	cctctggctc	tcatggggtc	caagttttgt	3300
gtattcttca	acctcattga	caagaactga	aaccaccaat	atgactcttg	gcttttctgt	3360
tttctgggaa	cctccaaatc	ccctggctct	gtcccactcc	tggcagcagt	gcagcaggtc	3420
caggtccggg	aaatgagggg	tggagggggc	tgggccctac	gtgctgtctc	acacagcctg	3480
tctgacctct	cgacctaccg	gcctaggcca	caagctctgc	ctacgctggt	caataaggtg	3540
tctccattca	aggcctcacc	gcagtaaggc	agctgccaac	cctgcccagg	gcaaggctgc	3600
ag						3602
<210> 5	ξ.					

<211>	1916
<212>	DNA
<213>	Gallus gallus
<220> <221> <222> <223>	misc_feature (1)(1916) beta-globin insulator



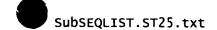
<400> 5 gcggccgcgc gcgtcaggtg	gcacttttcg	gggaaatgtg	cgcggaaccc	ctatttgttt	60
atttttctaa atacattcaa	atatgtatcc	gctcatgaga	caataaccct	gataaatgct	120
tcaataatat tgaaaaagga	agagtcctga	ggcggaaaga	accagctgtg	gaatgtgtgt	180
cagttagggt gtggaaagtc	cccaggctcc	ccagcaggca	gaagtatgca	aagcatgcat	240
ctcaattagt cagcaaccag	gtgtggaaag	tccccaggct	ccccagcagg	cagaagtatg	300
caaagcatgc atctcaatta	gtcagcaacc	atagtcccgc	ccctaactcc	gcccatcccg	360
cccctaactc cgcccagttc	cgcccattct	ccgccccatg	gctgactaat	tttttttatt	420
tatgcagagg ccgaggccgc	ctcggcctct	gagctattcc	agaagtagtg	aggaggcttt	480
tttggaggcc taggcttttg	caaagatcga	tcaagagaca	ggatgaggat	cgtttcgcat	540
gattgaacaa gatggattgc	acgcaggttc	tccggccgct	tgggtggaga	ggctattcgg	600
ctatgactgg gcacaacaga	caatcggctg	ctctgatgcc	gccgtgttcc	ggctgtcagc	660
gcaggggcgc ccggttcttt	ttgtcaagac	cgacctgtcc	ggtgccctga	atgaactgca	720
agacgaggca gcgcggctat	cgtggctggc	cacgacgggc	gttccttgcg	cagctgtgct	780
cgacgttgtc actgaagcgg	gaagggactg	gctgctattg	ggcgaagtgc	cggggcagga	840
tctcctgtca tctcaccttg	ctcctgccga	gaaagtatcc	atcatggctg	atgcaatgcg	900
gcggctgcat acgcttgatc	cggctacctg	cccattcgac	caccaagcga	aacatcgcat	960
cgagcgagca cgtactcgga	tggaagccgg	tcttgtcgat	caggatgatc	tggacgaaga	1020
gcatcagggg ctcgcgccag	ccgaactgtt	cgccaggctc	aaggcgagca	tgcccgacgg	1080
cgaggatctc gtcgtgaccc	atggcgatgc	ctgcttgccg	aatatcatgg	tggaaaatgg	1140
ccgcttttct ggattcatcg	actgtggccg	gctgggtgtg	gcggaccgct	atcaggacat	1200
agcgttggct acccgtgata	ttgctgaaga	gcttggcggc	gaatgggctg	accgcttcct	1260
cgtgctttac ggtatcgccg	ctcccgattc	gcagcgcatc	gccttctatc	gccttcttga	1320
cgagttcttc tgagcgggac	tctggggttc	gaaatgaccg	accaagcgac	gcccaacctg	1380
ccatcacgag atttcgattc	caccgccgcc	ttctatgaaa	ggttgggctt	cggaatcgtt	1440
ttccgggacg ccggctggat	gatcctccag	cgcggggatc	tcatgctgga	gttcttcgcc	1500
caccctaggg ggaggctaac	tgaaacacgg	aaggagacaa	taccggaagg	aacccgcgct	1560
atgacggcaa taaaaagaca	gaataaaacg	cacggtgttg	ggtcgtttgt	tcataaacgc	1620
ggggttcggt cccagggctg	gcactctgtc	gataccccac	cgagacccca	ttggggccaa	1680
tacgcccgcg tttcttcctt	ttccccaccc	cacccccaa	gttcgggtga	aggcccaggg	1740
ctcgcagcca acgtcggggc	ggcaggccct	gccatagcct	caggttactc	atatatactt	1800
tagattgatt taaaacttca	tttttaattt	aaaaggatct Page		cctttttgat	1860



aatctcatga ccaaaatccc ttaacgtgag ttttcgttcc actgagcgtc cgatcg 1916 <210> 6 <211> 2254 <212> DNA Artificial sequence <220> <223> cloning vector pEGFP-N1, complete sequence, enhanced green fluorescent protein (egfp) and neomycin phosphotransferase genes <400> 6 60 tcgactctag agggacagcc ccccccaaa gcccccaggg atgtaattac gtccctcccc 120 cgctaggggc agcagcgagc cgcccggggc tccgctccgg tccggcgctc cccccgcatc 180 cccgagccgg cagcgtgcgg ggacagcccg ggcacgggga aggtggcacg ggatcgcttt cctctgaacg cttctcgctg ctctttgagc ctgcagacac ctgggggggat acggggaaaa 240 300 agctttaggc tgaaagagag atttagaatg acagaatcat agaacggcct gggttgcaaa ggagcacagt gctcatccag atccaacccc ctgctatgtg cagggtcatc aaccagcagc 360 ccaggctgcc cagagccaca tccagcctgg ccttgaatgc ctgcagggat ggggcatcca 420 cagcctcctt gggcaacctg ttcagtgcgt caccacctc tgggggaaaa actgcctcct 480 540 catatccaac ccaaacctcc cctgtctcag tgtaaagcca ttcccccttg tcctatcaag ggggagtttg ctgtgacatt gttggtctgg ggtgacacat gtttgccaat tcagtgcatc 600 660 acggagaggc agatcttggg gataaggaag tgcaggacag catggacgtg ggacatgcag 720 gtgttgaggg ctctgggaca ctctccaagt cacagcgttc agaacagcct taaggataag aagataggat agaaggacaa agagcaagtt aaaacccagc atggagagga gcacaaaaag 780 gccacagaca ctgctggtcc ctgtgtctga gcctgcatgt ttgatggtgt ctggatgcaa 840 900 gcagaagggg tggaagagct tgcctggaga gatacagctg ggtcagtagg actgggacag 960 gcagctggag aattgccatg tagatgttca tacaatcgtc aaatcatgaa ggctggaaag 1020 cctccaagat ccccaagacc aaccccaacc cacccaccgt gcccactggc catgtccctc agtgccacat ccccacagtt cttcatcacc tccagggacg gtgacccccc cacctccgtg 1080 1140 ggcagctgtg ccactgcagc accgctcttt ggagaaggta aatcttgcta aatccagccc 1200 gaccctcccc tggcacaacg taaggccatt atctctcatc caactccagg acggagtcag 1260 tgaggatggg gctctagagg gacagcccc ccccaaagcc cccagggatg taattacgtc 1320 cctccccgc taggggcagc agcgagccgc ccggggctcc gctccggtcc ggcgctcccc 1380 ccgcatcccc gagccggcag cgtgcgggga cagcccgggc acggggaagg tggcacggga 1440 tcgctttcct ctgaacgctt ctcgctgctc tttgagcctg cagacacctg gggggatacg 1500

gggaaaaagc tttaggctga aagagagatt tagaatgaca gaatcataga acggcctggg

Page 11



ttgcaaagga	gcacagtgct	catccagatc	caaccccctg	ctatgtgcag	ggtcatcaac	1560
cagcagccca	ggctgcccag	agccacatcc	agcctggcct	tgaatgcctg	cagggatggg	1620
gcatccacag	cctccttggg	caacctgttc	agtgcgtcac	caccctctgg	gggaaaaact	1680
gcctcctcat	atccaaccca	aacctcccct	gtctcagtgt	aaagccattc	ccccttgtcc	1740
tatcaagggg	gagtttgctg	tgacattgtt	ggtctggggt	gacacatgtt	tgccaattca	1800
gtgcatcacg	gagaggcaga	tcttggggat	aaggaagtgc	aggacagcat	ggacgtggga	1860
catgcaggtg	ttgagggctc	tgggacactc	tccaagtcac	agcgttcaga	acagccttaa	1920
ggataagaag	ataggataga	aggacaaaga	gcaagttaaa	acccagcatg	gagaggagca	1980
caaaaaggcc	acagacactg	ctggtccctg	tgtctgagcc	tgcatgtttg	atggtgtctg	2040
gatgcaagca	gaaggggtcc	atgtccctca	gtgccacatc	cccacagttc	ttcatcacct	2100
ccagggacgg	tgacccccc	acctccgtgg	gcagctgtgc	cactgcagca	ccgctctttg	2160
gagaaggtaa	atcttgctaa	atccagcccg	accctcccct	ggcacaacgt	aaggccatta	2220
tctctcatcc	aactccagga	acggagtcag	tgag			2254

<210> 7 <211> 632 <212> DNA <213> Woodchuck hepatitis B virus

<220> <221> misc_feature <222> (1)..(632)

<223> woodchuck hepatitis virus posttranscriptional regulatory element

<400> accaggitct gitcctgita atcaaccict ggattacaaa attigigaaa gattgacigg 60 tattcttaac tatgttgctc cttttacgct atgtggatac gctgctttaa tgcctttgta 120 180 tcatgctatt gcttcccgta tggctttcat tttctcctcc ttgtataaat cctggttgct gtctctttat gaggagttgt ggcccgttgt caggcaacgt ggcgtggtgt gcactgtgtt 240 300 tgctgacgca accccactg gttggggcat tgccaccacc tgtcagctcc tttccgggac 360 tttcgctttc cccctccta ttgccacggc ggaactcatc gccgcctgcc ttgcccgctg 420 ctggacaggg gctcggctgt tgggcactga caattccgtg gtgttgtcgg ggaagctgac gtcctttcca tggctgctcg cctgtgttgc cacctggatt ctgcgcggga cgtccttctg 480 540 ctacgtccct tcggccctca atccagcgga ccttccttcc cgcggcctgc tgccggctct 600 gcggcctctt ccgcgtcttc gccttcgccc tcagacgagt cggatctccc tttgggccgc ctcccgcct gtttcgcctc gggctcctcg ag 632

SubSEQLIST, ST25, txt

<210>	8	
<211> <212>	24 DNA	
<213>	Artificial sequence	
<220> <223>	forward primer for amplifying neomycin resistant gene	
<400> gcggcc	8 gcgc gcgtcaggtg gcac	24
<210> <211> <212> <213>	9 29 DNA Artificial sequence	
<220> <223>	reverse primer for amplifying neomycin resistant gene	
<400> cgatcg	9 gacg ctcagtggaa cgaaaactc	29
<210> <211> <212> <213>	10 18 DNA Artificial sequence	
<220> <223>	forward primer for amplifying chicken B-globin insulator	
<400> tcgact	10 ctag agggacag	18
<210><211><211><212><213>	11 18 DNA Artificial sequence	
<220> <223>	reverse primer for amplifying chicken B-globin insulator	
<400> ctcact	11 gact ccgttcct	18
<210> <211> <212> <213>		
<220> <223>	forward primer for amplifying woodchuck hepatitis virus posttranscriptional regulatory element	
<400> accagg	12 ttct gttcctgtta atcaacctc	29
<210>		



27

<212> <213>	DNA Artificial sequence	
<220> <223>	reverse primer for amplifying woodchuck hepatitis virus posttranscriptional regulatory element	
<400> ctcgag	13 gagc ccgaggcgaa acaggcg	

Page 14